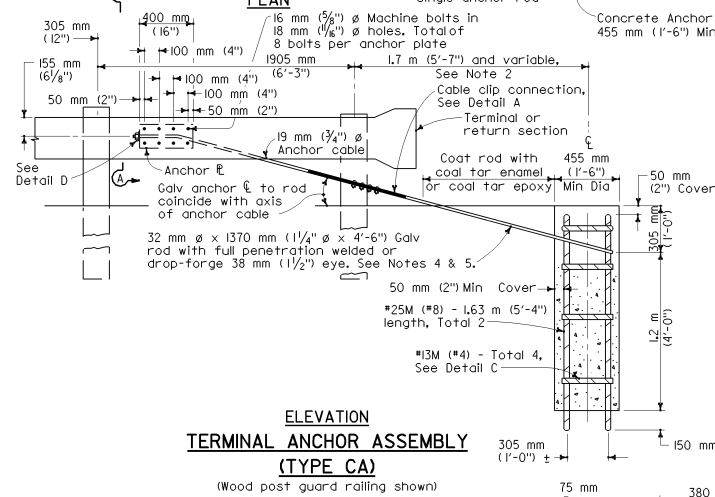
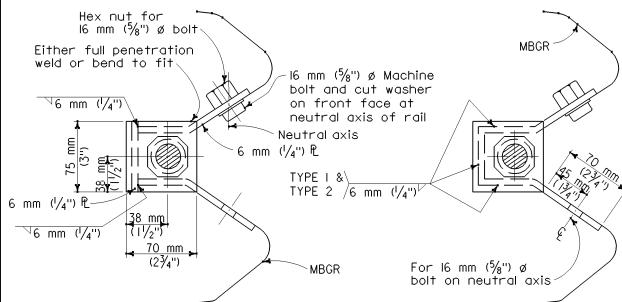


PLAN



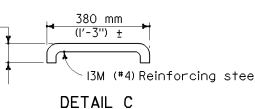
ELEVATION
TERMINAL ANCHOR ASSEMBLY
(TYPE CA)

(Wood post guard railing shown)

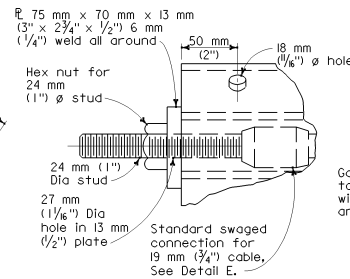


SECTION A-A
(Alternative Type 1)

SECTION A-A
(Alternative Type 2)
ANCHOR PLATE DETAILS



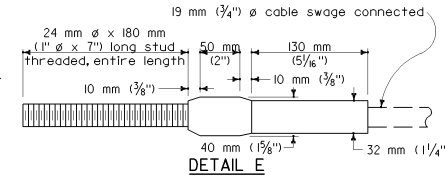
DETAIL C



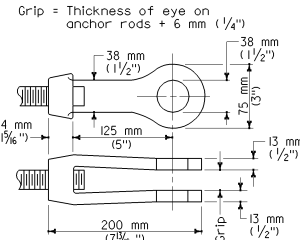
DETAIL D

NOTES

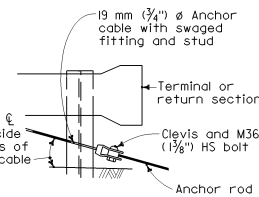
- For typical use of this terminal anchor, see metal beam guard railing Layout Types 3A, 4A, 5A and 6A on Standard Plans A770 and A77E.
- Anchor cable to be parallel to guard railing for straight runs of rail. Anchor cable may have angle point at anchor plate if guard railing is curved.
- Distance between end post and concrete anchor is 1.7 m (5'-7") with terminal section. May be less than 1.7 m (5'-7") with return sections if separate rods connect to concrete anchor.
- Anchor rod hooks to be in contact with anchor reinforcement when concrete is placed. Wire ties may be used to position anchor rods.
- Cable clip connection (Detail A) or clevis and bolt connection (Detail B) to be used with wood post guard railing installation. For steel post guard railing installations, clevis and bolt connection (Detail B) is to be used. Other alternative for attaching cable to anchor rod must be approved by the Engineer.



ANCHOR CABLE WITH
SWAGED FITTING AND STUD

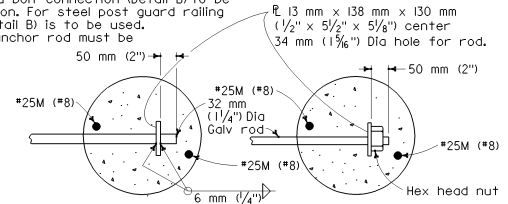


CLEVIS



ELEVATION
DETAIL B

CLEVIS AND BOLT CONNECTION
(Steel post guard railing shown)
See Note 5

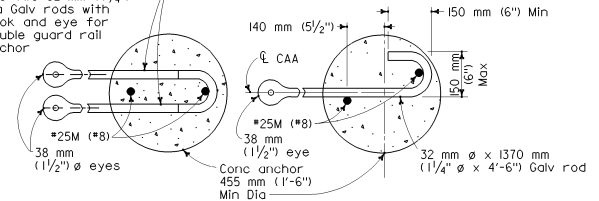


OPTIONAL ENDS ON SINGLE ANCHOR ROD

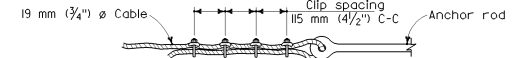
(Not to be used for double anchors)

NOTE

Use two 32 mm (1 1/4") Dia Galv rods with hook and eye for double guard rail anchor



DOUBLE ANCHOR
SINGLE ANCHOR
ANCHOR RODS



"U" bolts of clip on short end of cable only
"U" bolts tightened to 70 Nm (50 ft/lb) torque

DETAIL A
CABLE CLIP CONNECTION

See Note 5

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
METAL BEAM GUARD RAILING
END TREATMENT
TERMINAL ANCHOR ASSEMBLY
(TYPE CA)

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses (). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

A77I

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	NO. SHEETS

REGISTERED CIVIL ENGINEER

July 1, 2002
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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ELLIS K. HIRST
No. C17926
Exp. 6-30-05
STATE OF CALIFORNIA